Index 654-001 Rectangular Rapid Flashing Beacon Assembly

Design Criteria

FDOT Traffic Engineering Manual (TEM); ***Manual on Uniform Traffic Control Devices (MUTCD); FDOT Design Manual (FDM); AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (LRFDLTS-1); Structures Manual (SM), Volume 3; FDOT Modifications to LRFDLTS-1; Structures Manual (SM) Introduction, I.6 References***

Design Assumptions and Limitations

Allowable Uses

a. An RRFB shall only be installed to function as a pedestrian-actuated conspicuity enhancement.
b. An RRFB shall only be used to supplement a post-mounted W11-2 (Pedestrian), S1-1 (School), or W11-15 (Trail) crossing warning sign with a diagonal downward arrow (W16-7P) plaque, or an overhead-mounted W11-2, S1-1, or W11-15 crossing warning sign, located at or immediately adjacent to an uncontrolled marked crosswalk.
c. Except for crosswalks across the approach to or egress from a roundabout, an RRFB shall not be used for crosswalks across approaches controlled by YIELD signs, STOP signs, traffic control signals, or pedestrian hybrid beacons.
d. In the event sight distance approaching the crosswalk at which RRFBs are used is less than deemed necessary by the engineer, an additional RRFB may be installed on that approach in advance of the crosswalk, as a pedestrian-actuated conspicuity enhancement to supplement a W11-2 (Pedestrian), S1-1 (School), or W11-15 (Trail) crossing warning sign with an AHEAD (W16-9P) or distance (W16-2P or W16-2aP) plaque. If an additional RRFB is installed on the approach in advance of the crosswalk, it shall be supplemental to and not a replacement for the RRFBs at the crosswalk itself.

Sign/Beacon Assembly Locations

a. For any approach on which RRFBs are used to supplement post-mounted signs, at least two W11-2, S1-1, or W11-15 crossing warning signs (each with an RRFB unit and a W16-7P plaque) shall be installed at the crosswalk, one on the right-hand side of the roadway and one on the left-hand side of the roadway. On a divided highway, the left-hand side assembly should be installed on the median, if practical, rather than on the far left-hand side of the highway.
b. An RRFB shall not be installed independent of the crossing warning signs for the approach that the RRFB faces. If the RRFB unit is supplementing a post-mounted sign, the RRFB unit shall be installed on the same support as the associated W11-2, S1-1, or W11-15 crossing warning sign and plaque. If the

RRFB unit is supplementing an overhead-mounted sign, the RRFB unit shall be mounted directly below the bottom of the sign.

See **FHWA MUTCD Interim Approval 21**.

Plan Content Requirements

In the Signalization Plans:

Show, detail, and tabulate RRFBs mounted overhead or as a standalone assembly in accordance with **FDM 941**.

Payment

Item number	Item Description	Unit Measure
654-2-AB	Rectangular Rapid Flashing Beacon Sign Assembly (RRFB)	AS

See the ***BOE*** and ***Specification 654*** for additional information on payment, pay item use and compensation.